BF630T4D024

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, DC COIL, 24...48VDC



Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith ≤ 40°C		A	800
Operational current Ie			
	AC-1 (≤40°C)	A	800
	AC-1 (≤55°C)	A	660
	AC-1 (≤70°C)	A	570
	AC-3 (≤440V ≤55°C)	A	630
	AC-4 (400V)	A	260
Rated operational power AC-3 (T≤55°C)			
	230V	kW	200
	400V	kW	355
	415V	kW	355
	440V	kW	400
	500V	kW	400
	690V	kW	500
	1000V	kW	250
Rated operational current AC-3 (T≤55°C)			
	230V	A	630
	400V	A	630
	415V	A	630
	440V	A	630
	500V	A	552
	690V	A	493
	1000V	A	250
Rated operational power AC-1 (T≤40°C)			
	230V	kW	303
	400V	kW	527
	500V	kW	579
	690V	kW	908
IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	A	800
	110V	A	460
IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	A	800
	110V	A	800
	220V	A	700
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	A	800
	110V	A	800

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

	220V	A	800
	330V	A	700
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	800
	110V	A	460
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	800
	110V	A	800
	220V	A	700
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	650
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	A	800
	110V	A	800
	220V	A	800
	330V	A	700
	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		A	5040
Protection fuse			
	gG (IEC)	A	1000
	aM (IEC)	A	630
Making capacity (RMS value)		A	6300
Breaking capacity at voltage			
	440V	A	6300
	500V	A	4416
	690V	A	3944
Resistance per pole (average value)		mΩ	0.09
Power dissipation per pole (average value)			
	Ith	W	64
	AC-3	W	40
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	486
	max	lbin	486
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	7.1
	max	lbin	8.8
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	600000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	600000
		mechanical load	cycles	5000000
EMC compatibility				yes
AC coil operating				
AC average coil consumption at 20°C				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	390
		holding	VA	12
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	390
		holding	VA	12
Dissipation at holding ≤20°C 50Hz			W	4
DC coil operating				
DC rated control voltage				
		min	V	24
		max	V	48
max			V	48
DC operating voltage				
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
Average coil consumption ≤20°C				
		in-rush	W	390
		holding	W	4
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us control				
	in DC			
		Closing NO		
			min	ms 95
			max	ms 135
		Opening NO		
			min	ms 40
			max	ms 53
UL technical data				
Rated operational voltage AC (UL)			V	600
Yielded mechanical performance				
	for three-phase AC motor			
		200/208V	HP	200
		220/240V	HP	250
		460/480V	HP	500
		575/600V	HP	600
General USE				
	Contactor			
		AC current	A	800

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

Short-circuit protection fuse, 600V				
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	800
		Fuse class		L
	Standard fault			
		Short circuit current	kA	30
		Fuse rating	A	1000
		Fuse class		L

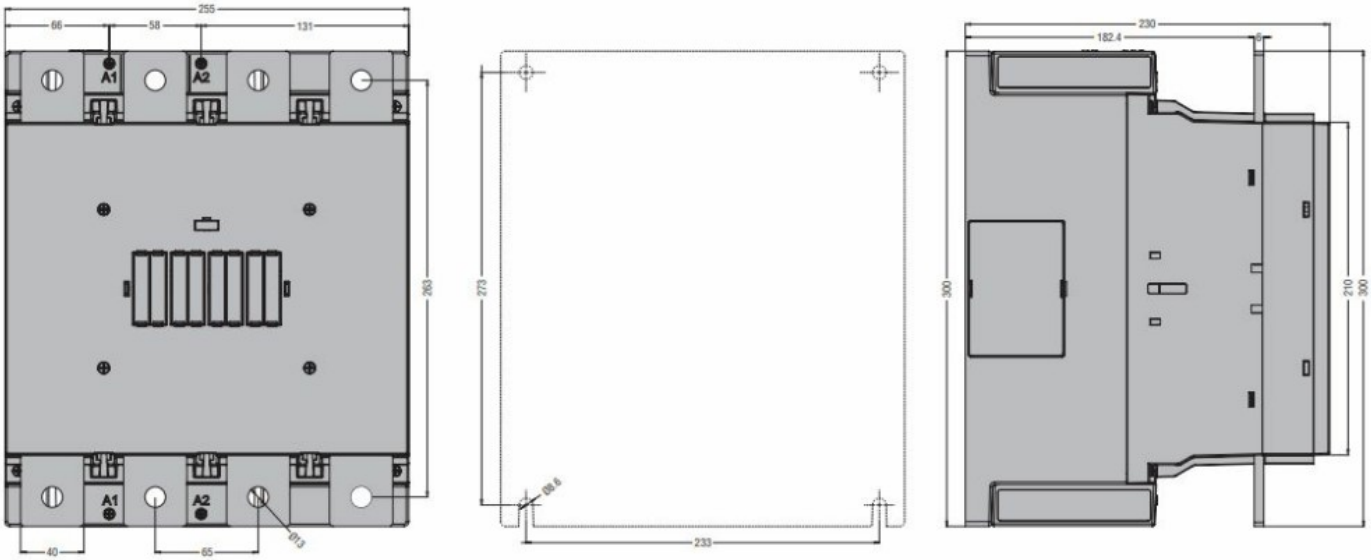
Ambient conditions

Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude			m	3000

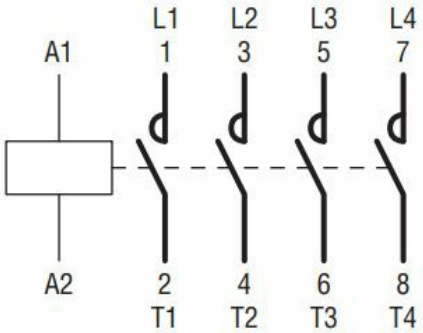
Resistance & Protection

Pollution degree	3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	cULus

ETIM classification

ETIM 8.0	EC000066 - Power contactor, AC switching

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding